



qPCR-2021-08-10 N2 O Aug 9 H Aug 5 6 7 Ac Aug 5 6 Aw Aug 5 VC Aug 9 S.pcrd 08/10/2021 16:27

Report Information

User: BioRad/admin

Data File Name: qPCR-2021-08-10 N2 O Aug 9 H Aug 5 6 7 Ac Aug 5 6 Aw Aug 5 VC Aug 9 S.pcrd

Data File Path: C:\Users\qPCRr\Documents\Syeda\Servicing\Aug 10

Well Group Name: All Wells

Report Differs from Last Save: No

Run Setup

Run Information

Run Date: 08/10/2021 15:23

Run User: admin

Run Type: User-defined

Plate File: qPCR2021-08-09 N1 UO sample_Pervez_Elutriation QC PS.pltd

ID:

Notes:

Sample Volume: 10

Temperature Control Mode: Calculated

Lid Temperature: 105

Base Serial Number: BR004529

Optical Head Serial Number: 788BR04584

Protocol

1: 50.0°C for 5:00

2: 95.0°C for 0:20

3: 95.0°C for 0:03

4: 60.0°C for 0:30

Plate Read

5: GOTO 3, 44 more times

Plate Display

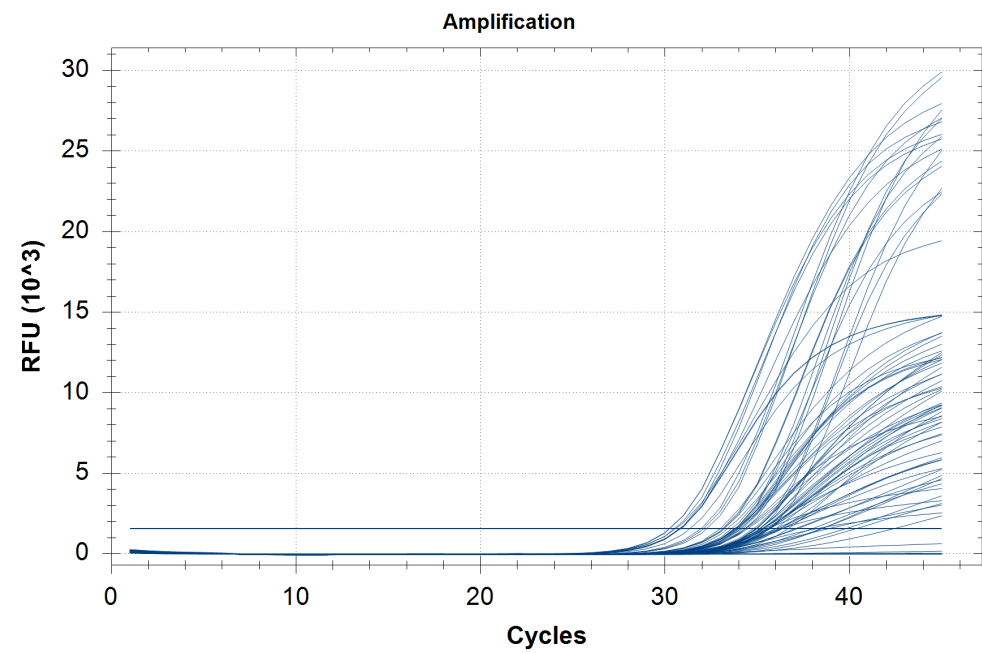
	1	2	3	4	5	6	7	8	9	10	11	12
A	Std N2	Std N2	Std N2	Unk N2 H_08.05.21	Unk N2 H_08.05.21	Unk N2 H_08.05.21	Unk N2 AC_08.05.2 1	Unk N2 AC_08.05.2 1	Unk N2 AC_08.05.2 1	Unk N2 EMH_07.21 .21	Unk N2 EMH_07.21 .21	Unk N2 EMH_07.21 .21
B	Std N2	Std N2	Std N2	Unk N2 H_08.07.21	Unk N2 H_08.07.21	Unk N2 H_08.07.21	Unk N2 VC1_08.09. 21	Unk N2 VC1_08.09. 21	Unk N2 VC1_08.09. 21	Unk N2 EVC1_07.0 2.21	Unk N2 EVC1_07.0 2.21	Unk N2 EVC1_07.0 2.21
C	Std N2	Std N2	Std N2	Unk N2 H_08.-8.21	Unk N2 H_08.-8.21	Unk N2 H_08.-8.21	Unk N2 VC2_08.09. 21	Unk N2 VC2_08.09. 21	Unk N2 VC2_08.09. 21	Unk N2 EVC1_07.1 6.21	Unk N2 EVC1_07.1 6.21	Unk N2 EVC1_07.1 6.21

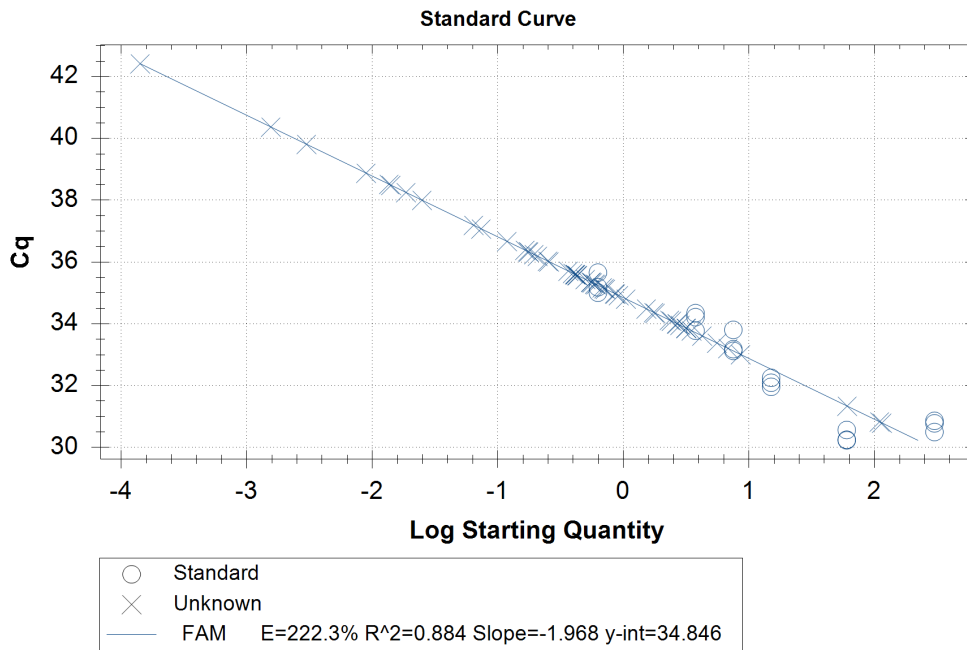
Plate Display

	1	2	3	4	5	6	7	8	9	10	11	12
D	Std N2	Std N2	Std N2	Unk N2 MH_08.09.2 1	Unk N2 MH_08.09.2 1	Unk N2 MH_08.09.2 1	Unk N2 VC3_08.09. 21	Unk N2 VC3_08.09. 21	Unk N2 VC3_08.09. 21	Unk N2 EVC3_07.1 6.21	Unk N2 EVC3_07.1 6.21	Unk N2 EVC3_07.1 6.21
E	Std N2	Std N2	Std N2	Unk N2 H_D_08.06. 21	Unk N2 H_D_08.06. 21	Unk N2 H_D_08.06. 21	Unk N2 AWst_08.09. 21	Unk N2 AWst_08.09. 21	Unk N2 AWst_08.09. 21	Unk N2 EB	Unk N2 EB	Unk N2 EB
F	Std N2	Std N2	Std N2	Unk N2 H_D_08.08. 21	Unk N2 H_D_08.08. 21	Unk N2 H_D_08.08. 21	Unk N2 Aw_B_08.0 9.21	Unk N2 Aw_B_08.0 9.21	Unk N2 Aw_B_08.0 9.21			
G	NTC N2	NTC N2	NTC N2	Unk N2 BMI_08.09. 21	Unk N2 BMI_08.09. 21	Unk N2 BMI_08.09. 21	Unk N2 EH_07.20.2 1	Unk N2 EH_07.20.2 1	Unk N2 EH_07.20.2 1			
H	Unk N2 O_08.09.21	Unk N2 O_08.09.21	Unk N2 O_08.09.21	Unk N2 AC_08.06.2 1	Unk N2 AC_08.06.2 1	Unk N2 AC_08.06.2 1	Unk N2 EBMI_07.2 5	Unk N2 EBMI_07.2 5	Unk N2 EBMI_07.2 5			

Quantification

Step #: 4
Analysis Mode: Fluorophore
Cq Determination: Single Threshold
Baseline Method:
FAM: Auto Calculated
Threshold Setting:
FAM: 1577.74, Auto Calculated





Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev	Starting Quantity (SQ)	Log Starting Quantity	SQ Mean	SQ Std. Dev
A01	FAM	N2	Std		30.86	30.86	0.000	3.000E+02	2.477	3.00E+02	0.00E+00
A02	FAM	N2	Std		30.50	30.50	0.000	3.000E+02	2.477	3.00E+02	0.00E+00
A03	FAM	N2	Std		30.78	30.78	0.000	3.000E+02	2.477	3.00E+02	0.00E+00
A04	FAM	N2	Unkn	H_08.05.21	34.98	34.98	0.000	8.550E-01	-0.068	8.55E-01	0.00E+00
A05	FAM	N2	Unkn	H_08.05.21	35.17	35.17	0.000	6.815E-01	-0.167	6.81E-01	0.00E+00
A06	FAM	N2	Unkn	H_08.05.21	34.81	34.81	0.000	1.047E+00	0.020	1.05E+00	0.00E+00
A07	FAM	N2	Unkn	AC_08.05.21	30.83	30.83	0.000	1.097E+02	2.040	1.10E+02	0.00E+00
A08	FAM	N2	Unkn	AC_08.05.21	30.79	30.79	0.000	1.146E+02	2.059	1.15E+02	0.00E+00
A09	FAM	N2	Unkn	AC_08.05.21	31.34	31.34	0.000	6.047E+01	1.782	6.05E+01	0.00E+00
A10	FAM	N2	Unkn	EMH_07.21.21	36.03	36.03	0.000	2.496E-01	-0.603	2.50E-01	0.00E+00
A11	FAM	N2	Unkn	EMH_07.21.21	36.33	36.33	0.000	1.764E-01	-0.753	1.76E-01	0.00E+00
A12	FAM	N2	Unkn	EMH_07.21.21	36.19	36.19	0.000	2.073E-01	-0.683	2.07E-01	0.00E+00
B01	FAM	N2	Std		30.57	30.57	0.000	6.000E+01	1.778	6.00E+01	0.00E+00
B02	FAM	N2	Std		30.25	30.25	0.000	6.000E+01	1.778	6.00E+01	0.00E+00
B03	FAM	N2	Std		30.23	30.23	0.000	6.000E+01	1.778	6.00E+01	0.00E+00
B04	FAM	N2	Unkn	H_08.07.21	35.60	35.60	0.000	4.152E-01	-0.382	4.15E-01	0.00E+00
B05	FAM	N2	Unkn	H_08.07.21	34.37	34.37	0.000	1.745E+00	0.242	1.74E+00	0.00E+00
B06	FAM	N2	Unkn	H_08.07.21	37.19	37.19	0.000	6.410E-02	-1.193	6.41E-02	0.00E+00
B07	FAM	N2	Unkn	VC1_08.09.21	42.42	42.42	0.000	1.417E-04	-3.849	1.42E-04	0.00E+00
B08	FAM	N2	Unkn	VC1_08.09.21	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
B09	FAM	N2	Unkn	VC1_08.09.21	38.49	38.49	0.000	1.412E-02	-1.850	1.41E-02	0.00E+00
B10	FAM	N2	Unkn	EVC1_07.02.21	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
B11	FAM	N2	Unkn	EVC1_07.02.21	40.37	40.37	0.000	1.556E-03	-2.808	1.56E-03	0.00E+00
B12	FAM	N2	Unkn	EVC1_07.02.21	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
C01	FAM	N2	Std		31.96	31.96	0.000	1.500E+01	1.176	1.50E+01	0.00E+00
C02	FAM	N2	Std		32.25	32.25	0.000	1.500E+01	1.176	1.50E+01	0.00E+00
C03	FAM	N2	Std		32.10	32.10	0.000	1.500E+01	1.176	1.50E+01	0.00E+00
C04	FAM	N2	Unkn	H_08.-8.21	34.00	34.00	0.000	2.690E+00	0.430	2.69E+00	0.00E+00

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev	Starting Quantity (SQ)	Log Starting Quantity	SQ Mean	SQ Std. Dev
C05	FAM	N2	Unkn	H_08.-8.21	35.12	35.12	0.000	7.216E-01	-0.142	7.22E-01	0.00E+00
C06	FAM	N2	Unkn	H_08.-8.21	35.35	35.35	0.000	5.556E-01	-0.255	5.56E-01	0.00E+00
C07	FAM	N2	Unkn	VC2_08.09.21	35.64	35.64	0.000	3.954E-01	-0.403	3.95E-01	0.00E+00
C08	FAM	N2	Unkn	VC2_08.09.21	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
C09	FAM	N2	Unkn	VC2_08.09.21	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
C10	FAM	N2	Unkn	EVC1_07.16.21	36.67	36.67	0.000	1.184E-01	-0.927	1.18E-01	0.00E+00
C11	FAM	N2	Unkn	EVC1_07.16.21	36.01	36.01	0.000	2.558E-01	-0.592	2.56E-01	0.00E+00
C12	FAM	N2	Unkn	EVC1_07.16.21	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
D01	FAM	N2	Std		33.13	33.13	0.000	7.500E+00	0.875	7.50E+00	0.00E+00
D02	FAM	N2	Std		33.18	33.18	0.000	7.500E+00	0.875	7.50E+00	0.00E+00
D03	FAM	N2	Std		33.80	33.80	0.000	7.500E+00	0.875	7.50E+00	0.00E+00
D04	FAM	N2	Unkn	MH_08.09.21	33.78	33.78	0.000	3.490E+00	0.543	3.49E+00	0.00E+00
D05	FAM	N2	Unkn	MH_08.09.21	33.86	33.86	0.000	3.163E+00	0.500	3.16E+00	0.00E+00
D06	FAM	N2	Unkn	MH_08.09.21	33.21	33.21	0.000	6.814E+00	0.833	6.81E+00	0.00E+00
D07	FAM	N2	Unkn	VC3_08.09.21	36.25	36.25	0.000	1.942E-01	-0.712	1.94E-01	0.00E+00
D08	FAM	N2	Unkn	VC3_08.09.21	39.81	39.81	0.000	2.992E-03	-2.524	2.99E-03	0.00E+00
D09	FAM	N2	Unkn	VC3_08.09.21	38.52	38.52	0.000	1.360E-02	-1.867	1.36E-02	0.00E+00
D10	FAM	N2	Unkn	EVC3_07.16.21	35.59	35.59	0.000	4.163E-01	-0.381	4.16E-01	0.00E+00
D11	FAM	N2	Unkn	EVC3_07.16.21	38.25	38.25	0.000	1.855E-02	-1.732	1.86E-02	0.00E+00
D12	FAM	N2	Unkn	EVC3_07.16.21	36.34	36.34	0.000	1.738E-01	-0.760	1.74E-01	0.00E+00
E01	FAM	N2	Std		34.35	34.35	0.000	3.750E+00	0.574	3.75E+00	0.00E+00
E02	FAM	N2	Std		34.22	34.22	0.000	3.750E+00	0.574	3.75E+00	0.00E+00
E03	FAM	N2	Std		33.78	33.78	0.000	3.750E+00	0.574	3.75E+00	0.00E+00
E04	FAM	N2	Unkn	H_D_08.06.21	34.92	34.92	0.000	9.167E-01	-0.038	9.17E-01	0.00E+00
E05	FAM	N2	Unkn	H_D_08.06.21	34.12	34.12	0.000	2.334E+00	0.368	2.33E+00	0.00E+00
E06	FAM	N2	Unkn	H_D_08.06.21	33.61	33.61	0.000	4.236E+00	0.627	4.24E+00	0.00E+00
E07	FAM	N2	Unkn	AWst_08.09.21	33.38	33.38	0.000	5.558E+00	0.745	5.56E+00	0.00E+00
E08	FAM	N2	Unkn	AWst_08.09.21	33.96	33.96	0.000	2.831E+00	0.452	2.83E+00	0.00E+00
E09	FAM	N2	Unkn	AWst_08.09.21	33.01	33.01	0.000	8.596E+00	0.934	8.60E+00	0.00E+00
E10	FAM	N2	Unkn	EB	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
E11	FAM	N2	Unkn	EB	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
E12	FAM	N2	Unkn	EB	N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
F01	FAM	N2	Std		35.01	35.01	0.000	6.260E-01	-0.203	6.26E-01	0.00E+00
F02	FAM	N2	Std		35.19	35.19	0.000	6.260E-01	-0.203	6.26E-01	0.00E+00
F03	FAM	N2	Std		35.66	35.66	0.000	6.260E-01	-0.203	6.26E-01	0.00E+00
F04	FAM	N2	Unkn	H_D_08.08.21	35.35	35.35	0.000	5.518E-01	-0.258	5.52E-01	0.00E+00
F05	FAM	N2	Unkn	H_D_08.08.21	35.57	35.57	0.000	4.285E-01	-0.368	4.28E-01	0.00E+00
F06	FAM	N2	Unkn	H_D_08.08.21	35.14	35.14	0.000	7.051E-01	-0.152	7.05E-01	0.00E+00
F07	FAM	N2	Unkn	Aw_B_08.09.21	33.86	33.86	0.000	3.162E+00	0.500	3.16E+00	0.00E+00
F08	FAM	N2	Unkn	Aw_B_08.09.21	34.49	34.49	0.000	1.523E+00	0.183	1.52E+00	0.00E+00
F09	FAM	N2	Unkn	Aw_B_08.09.21	33.86	33.86	0.000	3.171E+00	0.501	3.17E+00	0.00E+00
G01	FAM	N2	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
G02	FAM	N2	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
G03	FAM	N2	NTC		N/A	0.00	0.000	N/A	N/A	0.00E+00	0.00E+00
G04	FAM	N2	Unkn	BMI_08.09.21	35.29	35.29	0.000	5.934E-01	-0.227	5.93E-01	0.00E+00
G05	FAM	N2	Unkn	BMI_08.09.21	34.01	34.01	0.000	2.663E+00	0.425	2.66E+00	0.00E+00
G06	FAM	N2	Unkn	BMI_08.09.21	35.33	35.33	0.000	5.667E-01	-0.247	5.67E-01	0.00E+00
G07	FAM	N2	Unkn	EH_07.20.21	36.39	36.39	0.000	1.649E-01	-0.783	1.65E-01	0.00E+00
G08	FAM	N2	Unkn	EH_07.20.21	38.00	38.00	0.000	2.489E-02	-1.604	2.49E-02	0.00E+00

Quantification Data

Well	Fluor	Target	Content	Sample	Cq	Cq Mean	Cq Std. Dev	Starting Quantity (SQ)	Log Starting Quantity	SQ Mean	SQ Std. Dev
G09	FAM	N2	Unkn	EH_07.20.21	35.44	35.44	0.000	4.984E-01	-0.302	4.98E-01	0.00E+00
H01	FAM	N2	Unkn	O_08.09.21	35.60	35.60	0.000	4.115E-01	-0.386	4.11E-01	0.00E+00
H02	FAM	N2	Unkn	O_08.09.21	34.09	34.09	0.000	2.419E+00	0.384	2.42E+00	0.00E+00
H03	FAM	N2	Unkn	O_08.09.21	35.71	35.71	0.000	3.637E-01	-0.439	3.64E-01	0.00E+00
H04	FAM	N2	Unkn	AC_08.06.21	34.97	34.97	0.000	8.656E-01	-0.063	8.66E-01	0.00E+00
H05	FAM	N2	Unkn	AC_08.06.21	35.56	35.56	0.000	4.321E-01	-0.364	4.32E-01	0.00E+00
H06	FAM	N2	Unkn	AC_08.06.21	34.35	34.35	0.000	1.795E+00	0.254	1.79E+00	0.00E+00
H07	FAM	N2	Unkn	EBMI_07.25	37.07	37.07	0.000	7.365E-02	-1.133	7.36E-02	0.00E+00
H08	FAM	N2	Unkn	EBMI_07.25	38.88	38.88	0.000	8.927E-03	-2.049	8.93E-03	0.00E+00
H09	FAM	N2	Unkn	EBMI_07.25	35.27	35.27	0.000	6.057E-01	-0.218	6.06E-01	0.00E+00

Bar Chart

Normalized expression analysis is not possible, either because no target is assigned as a reference or the selected target(s) is not a

Target Names

Name	Full Name	Reference	Auto Efficiency	Efficiency
N2	N2	False	Yes	222.3%

Sample Names

Name	Full Name	Control
AC_08.05.21	AC_08.05.21	No
AC_08.06.21	AC_08.06.21	No
Aw_B_08.09.21	Aw_B_08.09.21	No
AWst_08.09.21	AWst_08.09.21	No
BMI_08.09.21	BMI_08.09.21	No
EBMI_07.25	EBMI_07.25	No
EH_07.20.21	EH_07.20.21	No
EMH_07.21.21	EMH_07.21.21	No
EVC1_07.02.21	EVC1_07.02.21	No
EVC1_07.16.21	EVC1_07.16.21	No
EVC3_07.16.21	EVC3_07.16.21	No
H_08.05.21	H_08.05.21	No
H_08.07.21	H_08.07.21	No
H_08.-8.21	H_08.-8.21	No
H_D_08.06.21	H_D_08.06.21	No
H_D_08.08.21	H_D_08.08.21	No
MH_08.09.21	MH_08.09.21	No
O_08.09.21	O_08.09.21	No
VC1_08.09.21	VC1_08.09.21	No
VC2_08.09.21	VC2_08.09.21	No
VC3_08.09.21	VC3_08.09.21	No

Gene Expression - Bar Chart Data

Target	Sample	Control	Expression	Expression SEM	Corrected Expression SEM	Mean Cq	Cq SEM	P-Value
N2	AC_08.05.21		N/A	N/A	N/A	30.99	0.17621	N/A
N2	AC_08.06.21		N/A	N/A	N/A	34.96	0.35131	N/A
N2	Aw_B_08.09.21		N/A	N/A	N/A	34.07	0.20851	N/A
N2	AWst_08.09.21		N/A	N/A	N/A	33.45	0.27606	N/A
N2	BMI_08.09.21		N/A	N/A	N/A	34.88	0.43433	N/A
N2	EB		N/A	N/A	N/A	N/A	N/A	N/A
N2	EBMI_07.25		N/A	N/A	N/A	37.08	1.04028	N/A
N2	EH_07.20.21		N/A	N/A	N/A	36.61	0.74762	N/A
N2	EMH_07.21.21		N/A	N/A	N/A	36.18	0.08565	N/A
N2	EVC1_07.02.21		N/A	N/A	N/A	40.37	0.00000	N/A
N2	EVC1_07.16.21		N/A	N/A	N/A	36.34	0.32901	N/A
N2	EVC3_07.16.21		N/A	N/A	N/A	36.73	0.79159	N/A
N2	H_08.05.21		N/A	N/A	N/A	34.99	0.10592	N/A
N2	H_08.07.21		N/A	N/A	N/A	35.72	0.81728	N/A
N2	H_08.-8.21		N/A	N/A	N/A	34.82	0.41707	N/A
N2	H_D_08.06.21		N/A	N/A	N/A	34.22	0.38058	N/A
N2	H_D_08.08.21		N/A	N/A	N/A	35.36	0.12287	N/A
N2	MH_08.09.21		N/A	N/A	N/A	33.62	0.20602	N/A
N2	O_08.09.21		N/A	N/A	N/A	35.14	0.52298	N/A
N2	VC1_08.09.21		N/A	N/A	N/A	40.45	1.96595	N/A
N2	VC2_08.09.21		N/A	N/A	N/A	35.64	0.00000	N/A
N2	VC3_08.09.21		N/A	N/A	N/A	38.19	1.04220	N/A

QC Parameters

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
Negative control with a Cq less than	38	True		False	
NTC with a Cq less than	38	True		False	
NRT with a Cq less than	38	True		False	
Positive control with a Cq greater than	30	True		False	
Unknown without a Cq	N/A	True	FAM:B8, B10, B12, C8, C9, C12, E10, E11, E12.	False	
Standard without a Cq	N/A	True		False	

Data

Description	Value	Use	Results	Exclude Wells	All excluded wells
Efficiency greater than	110.0	True	FAM		
Efficiency less than	90.0	True			
Std Curve R^2 less than	0.980	True	FAM		
Replicate group Cq Std Dev greater than	0.20	True		False	